

# 6941AX Mains Cable - BS5467, XLPE, AWA, PVC - 50mm<sup>2</sup> to 1000mm<sup>2</sup>



#### **Description**

General single core control / power cable for fixed wiring arrangements and power networks. Suitable for underground, indoor and outdoor use in cable ducting. This cable is BASEC approved.

## **Key Features**



Voltage Rating 600/1000 Volts



Minimum Bending Radius 8 x Overall Diameter



Flame Retardancy BS EN 60332-1-2



**Temperature Limits** Fixed: -25°C to +90°C

## **Core Colours**

Single core: 50mm<sup>2</sup> - 1000mm<sup>2</sup>

(\* Please note 50mm² and 70mm² sizes are not Basec Approved)

Insulation: Brown

Outer Sheath: Black

#### **Standards**

- BS EN/IEC 60332-1-2
- BS5467
- BS EN/IEC 60228

#### Construction

- Conductor: Class 2 stranded copper conductor
- Insulation: Cross Linked polyethylene (XLPE)
- Bedding: Polyvinyl Chloride (PVC)
- Armour: Aluminium Wire Armour (AWA)
- Outer Sheath: Polyvinyl Chloride (PVC)
- Sheath Colour: Black

## **QA Lab**

#### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.







#### CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



## **Our Sustainability Commitment**

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



#### ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

# ecovadis



















# 6941AX Mains Cable - BS5467, XLPE, AWA, PVC - 50mm² to 1000mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km	Trefoil Cleat	Nylon Cleat Size	Nylon A2	Brass A2	
6941AX50	50	1	19/1.78	17.7	638	NONE	0.7	25	20	
6941AX70	70	1	19/2.14	19.6	891	NONE	0.8	32	25	
6941AX95	95	1	19/2.52	21.5	1166	NONE	0.9	32	25	
6941AX120	120	1	37/2.03	23.1	1412	NONE	1	32	25	
6941AX150	150	1	37/2.25	26	1800	NONE	1.1	40	32	
6941AX185	185	1	37/2.52	28	2200	TASB04	1.2	40	32	
6941AX240	240	1	61/2.25	32	2800	2800 TASB06		50S	40	
6941AX300	300	1	61/2.52	33	3400	TASB06	1.4	50S	40	
6941AX400	400	1	61/2.85	38	4450	TASB10	1.6	50	40	
6941AX500	500	1	61/3.20	43	5550	TASB13	1.8	63S	50S	
6941AX630	630	1	127/2.52	47	7100	TASB15	2	63S	50	
6941AX800	800	1	127/2.85	55	9200	TASB20	TC9	75S	635	
6941AX1000	1000	1	127/3.20	58.8	11270	TASB20	TC10	<b>75</b> S	635	

















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# **TABLE 4D1A**

CURRENT-CARRYING CAPACITY (amperes):

Ambient temperature: 30 °C Conductor operating temperature: 70 °C

Conductor	Reference N		Reference M		Reference	e Method C (clipped	Reference Method F							
cross-	(enclosed in conduit in thermally insulating		(enclosed in conduit on a wall or in trunking etc.)			direct)	(in free air or on a perforated cable tray horizontal or vertical)							
sectional area		/all etc)	wall of III	trunking etc./				Touching	Spaced by one diameter					
	2 cables, single- phase AC or DC	3 or4 cables, three- phase	2 cables, single- phase AC or DC	3 or4 cables, three- phase	2 cables, single- phase AC or DC flat and	3 or4 cables, three- phase AC flat and touching or	2 cables, single- phase AC or DC flat	3 cables, three- phase AC flat	3 cables, three- phase AC	2 cables, single-phase AC or DC or 3 cables three- pha AC flat				
		AC		AC	touching	trefoil			trefoil	Horizontal	Vertical			
	2	3	4	5	6	7	8	9	10	11	12			
(mm 2)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)			
1	11	10.5	13.5	12	15.5	14	-	-	-	-	-			
1.5	14.5	13.5	17.5	15.5	20	18	-	-	-	-	-			
2.5	20	18	24	21	27	25								
4	26	24	32	28	37	33								
6	34	31	41	36	47	43								
IO	46	42	57	50	65	59								
16	61	56	76	68	87	79								
25	80	73	101	89	114	104	131	114	110	146	130			
35	99	89	125	110	141	129	162	143	137	181	162			
50	119	108	151	134	182	167	196	174	167	219	197			
70	151	136	192	171	234	214	251	225	216	281	254			
95	182	164	232	207	284	261	304	275	264	341	311			
120	210	188	269	239	330	303	352	321	308	396	362			
150	240	216	300	262	381	349	406	372	356	456	419			
185	273	245	341	296	436	400	463	427	409	521	480			
240	321	286	400	346	515	472	546	507	485	615	569			
300	367	328	458	394	594	545	629	587	561	709	659			
400	_	-	546	467	694	634	754	689	656	852	795			
500	-	-	626	533	792	723	868	789	749	982	920			
630	-	-	720	611	904	826	1005	905	855	1138	1070			
800	-	-	-	-	1030	943	1086	1020	971	1265	1188			
1000	-	-	-	-	1154	1058	1216	1149	1079	1420	1337			

















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## **TABLE 4D1B**

**VOLTAGE DROP** (per ampere per metre):

Conductor operating temperature: 70  $^{\circ}\text{C}$ 

Conductor	2 cables				2 cables, single-phase AC					3 or 4 cables, three-phase AC													
cross-sectional area	DC	Reference Methods A & B (enclosed in conduit or			Reference Methods C & F (clipped direct, on tray or in free air)					Reference Methods A & B (enclosed in conduit or			Reference Methods C & F (clipped direct, on tray or in free air)										
		trunking)		Cables touching			Cables spaced*			trunking)			Cables touching, Trefoil			Cables touching, Flat			Cables spaced*, Flat				
1	2	3			4			5			6			7			8			9			
mm <sup>2</sup>	(mV/ Nm)	(mV/Afm)			(mV/Afm)			(mV/Afm)			(mV/Afm)			(mV/Afm)			(mV/Afm)			(mV/Afm)			
1	44		44		44				44			38			38			38			38		
1.5	29	29			29				29			25			25			25			25		
2.5	18		18			18	18 18			15			15			15			15				
4	11	11			11			11			9.5			9.5			9.5			9.5			
6	7.3	7.3			7.3				7.3		6.4			6.4			6.4			6.4			
10	4.4	4.4			4.4			4.4			3.8			3.8			3.8			3.8			
16	2.8		2.8		2.8			2.8			2.4			2.4			2.4			2.4			
		r	Х	Z	r	Х	Z	r	Х	Z	r	Х	Z	r	Х	Z	r	X	Z	r	Х	Z	
25	1.75	1.80	0.33	1.80	1.75	0.20	1.75	1.75	0.29	1.80	1.50	0.29	1.55	1.50	0.175	1.50	1.50	0.25	1.55	1.50	0.32	1.55	
35	1.25	1.30	0.31	1.30	1.25	0.195	1.25	1.25	0.28	1.30	1.10	0.27	1.10	1.10	0.170	1.10	1.10	0.24	1.10	1.10	0.32	1.15	
50	0.93	0.95	0.30	1.00	0.93	0.190	0.95	0.93	0.28	0.97	0.81	0.26	0.85	0.80	0.165	0.82	0.80	0.24	0.84	0.80	0.32	0.86	
70	0.63	0.65	0.29	0.72	0.63	0.185	0.66	0.63	0.27	0.69	0.56	0.25	0.61	0.55	0.160	0.57	0.55	0.24	0.60	0.55	0.31	0.63	
95	0.46	0.49	0.28	0.56	0.47	0.180	0.50	0.47	0.27	0.54	0.42	0.24	0.48	0.41	0.155	0.43	0.41	0.23	0.47	0.40	0.31	0.51	
120	0.36	0.39	0.27	0.47	0.37	0.175	0.41	0.37	0.26	0.45	0.33	0.23	0.41	0.32	0.150	0.36	0.32	0.23	0.40	0.32	0.30	0.44	
150	0.29	0.31	0.27	0.41	0.30	0.175	0.34	0.29	0.26	0.39	0.27	0.23	0.36	0.26	0.150	0.30	0.26	0.23	0.34	0.26	0.30	0.40	
185	0.23	0.25	0.27	0.37	0.24	0.170	0.29	0.24	0.26	0.35	0.22	0.23	0.32	0.21	0.145	0.26	0.21	0.22	0.31	0.21	0.30	0.36	
240	0.180	0.195	0.26	0.33	0.185	0.165	0.25	0.185	0.25	0.31	0.17	0.23	0.29	0.160	0.145	0.22	0.160	0.22	0.27	0.160	0.29	0.34	
300	0.145	0.160	0.26	0.31	0.150	0.165	0.22	0.150	0.25	0.29	0.14	0.23	0.27	0.130	0.140	0.190	0.130	0.22	0.25	0.130	0.29	0.32	
400	0.105	0.130	0.26	0.29	0.120	0.160	0.20	0.115	0.25	0.27	0.12	0.22	0.25	0.105	0.140	0.175	0.105	0.21	0.24	0.100	0.29	0.31	
500	0.086	0.110	0.26	0.28	0.098	0.155	0.185	0.093	0.24	0.26	0.10	0.22	0.25	0.086	0.135	0.160	0.086	0.21	0.23	0.081	0.29	0.30	
630	0.068	0.094	0.25	0.27	0.081	0.155	0.175	0.076	0.24	0.25	0.08	0.22	0.24	0.072	0.135	0.150	0.072	0.21	0.22	0.066	0.28	0.29	
800	0.053		-		0.068	0.150	0.165	0.061	0.24	0.25		-		0.060	0.130	0.145	0.060	0.21	0.22	0.053	0.28	0.29	
1000	-0.042		-		0.059	0.150	0.160	0.050	0.24	0.24		-		0.052	0.130	0.140	0.052	0.20	0.21	0.044	0.28	0.28	

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